

CoreFocus
Report
No.392

GCMS

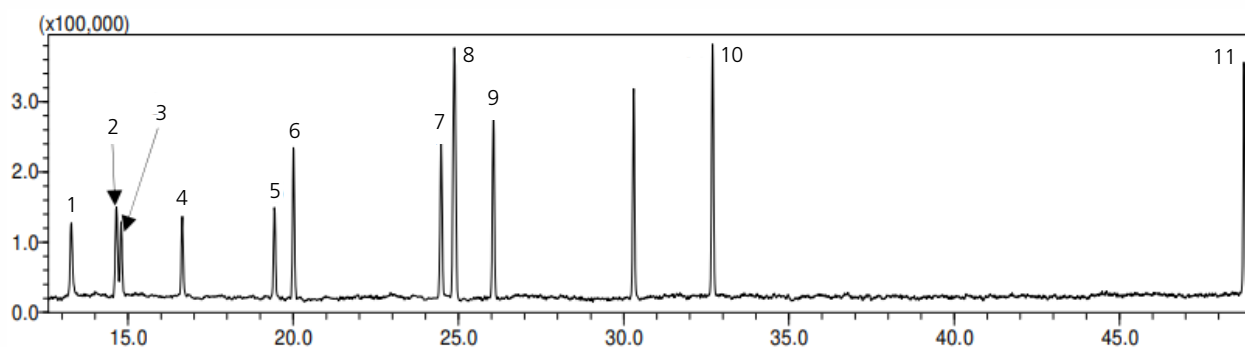
TD

SH Series

SH-I-624Sil MS

Analysis of Volatile Organic Compounds in Indoor Air

Keywords: Environment , VOCs



1. Chloroform, 2. Benzene, 3. 1,2-Dichloroethane, 4. Ethyl acrylate, 5. Methyl isobutyl ketone, 6. Toluene, 7. Ethylbenzene, 8. *m*-Xylene and *p*-xylene, 9. *o*-Xylene, 10. 1,2-Dichlorobenzene, 11. Hexadecane

System Configuration

Model : GCMS-QP™2020 NX/TD-30
Column : SH-I-624Sil MS (60 m x 0.32 mm I.D., 1.80 μm)
P/N : 221-75963-60

TD

Tube desorb. temp. : 250 °C (10 min)
Tube desorb. flow : 70 mL/min
Trap cooling temp. : -25 °C
Trap desorb. temp. : 250 °C (2 min)
Joint temp. : 75 °C
Valve temp. : 185 °C
Transfer line temp. : 220 °C

GC

Control mode : Constant pressure (200 kPa)
Carrier gas : He
Injection mode : Split
Split ratio : 10
Column oven temp. : 35 °C (5 min) – (5 °C /min) – 280 °C (5 min)
(Down the temperature with-10 °C/min until 100 °C)

MS

Ion source temp. : 230 °C
Interface temp. : 200 °C
Measurement mode : FASST (Scan/SIM)
Scan mass range : *m/z* 20 - 600
Measurement mode : SIM
SIM monitor *m/z* : See below

No	Compound	Target ion <i>m/z</i>	Reference ion <i>m/z</i>
1	Chloroform	83	85, 47
2	Benzene	78	77, 50
3	1,2-Dichloroethane	62	64, 27
4	Ethyl acrylate	55	73
5	Methyl isobutyl ketone	43	58, 100
6	Toluene	91	92
7	Ethylbenzene	91	106
8	<i>m</i> -Xylene and <i>p</i> -xylene	91	106
9	<i>o</i> -Xylene	91	106
10	1,2-Dichlorobenzene	146	111, 148
11	Hexadecane	57	71, 85

Source : Application News M313 ([JP](#), [ENG](#))

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Shim-pack

➤ SH-I-624SiI MS

Related Solutions

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➤ 大気

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➤ Product Inquiry

➤ Technical Service /
Support Inquiry

➤ Other Inquiry